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NORTH CENTRAL FOREST EXPERIMENT STATION, FOREST SERVICE—U.S. DEPARTMENT OF AGRICULTURE

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Lake States Pulpwood Production Rises 11 Percent In 1969

ABSTRACT. — This 24th annual report shows that 1969 Lake States pulpwood output rose to about 3.9 million cords from about 3.5 million cords in 1968. Pulpwood harvesting increased 150,000 cords in Wisconsin, 113,000 cords in Minnesota, and 102,000 cords in Michigan. For the first time, pulpwood imports from western States exceeded those from Canada.
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After Wisconsin mills cut back pulpwood inventories one-quarter million cords in 1968 by curtailing purchases, Lake States pulpwood procurement returned to a more "normal" level in 1969. Regional pulpwood production was 3,944,000 cords, nearly 400 thousand cords above 1968, but more than 300 thousand cords below the record output in 1966 (table 1).

PRODUCTION

All Lake States shared the larger pulpwood output. Production rose, 10, 11, and 12 percent, in Minnesota, Michigan, and Wisconsin, respectively.

Roundwood harvesting rose 364,000 cords in the Lake States. This harvest (including chips from roundwood) constituted 93 percent of the 1969 Lake States pulpwood output; mill residue such as chips, slabs, and veneer cores, made up the remaining 7 percent. More than half this harvest increase was aspen. The cut of miscellaneous hardwoods was up 86,000 cords from 1968 and the harvest of pine increased 53,000 cords.

Some softwood species did not share in the larger cut. Balsam fir output fell 21,000 cords, and tamarack 8,000 cords. Spruce cutting showed little change.

Eleven percent more Lake States mill residue was sold to pulpmills in 1969 than in 1968. Most of the additional residue was from Michigan sawmills and veneer mills.

MILL RECEIPTS

In 1969 Lake States pulpmills received 4,366,000 cords of pulpwood, 9 percent more than in 1968. Three-fourths of the additional

Table 1. — *Production and imports of pulpwood, Lake States, 1969*

Species and destination	Production by States[1]				Imports			Total receipts
	Minnesota	Wisconsin	Michigan	Regional total	Other U.S.[2]	Canada	Total imports	
Aspen								
Minnesota	617,343	6,240	--	623,583	--	9,744	9,744	633,327
Wisconsin	39,480	688,298	249,735	977,513	--	285	285	977,798
Michigan	--	2,380	355,894	358,274	--	--	--	358,274
Exported[3]	3,594	356	547	4,497	--	--	--	--
Total	660,417	697,274	606,176	1,963,867	--	10,029	10,029	1,969,399
Balsam fir								
Minnesota	32,712	--	--	32,712	--	--	--	32,712
Wisconsin	6,916	50,398	23,978	81,292	--	--	--	81,292
Michigan	--	--	19,198	19,198	--	--	--	19,198
Exported[3]	--	--	945	945	--	--	--	--
Total	39,628	50,398	44,121	134,147	--	--	--	133,202
Birch								
Minnesota	2,900	--	--	2,900	--	--	--	2,900
Wisconsin	91	61,859	730	62,680	--	--	--	62,680
Michigan	--	--	21,521	21,521	--	--	--	21,521
Exported[3]	72	598	852	1,522	--	--	--	--
Total	3,063	62,457	23,103	88,623	--	--	--	87,101
Hemlock								
Wisconsin	--	50,559	61,328	111,887	--	--	--	111,887
Michigan	--	--	1,937	1,937	--	--	--	1,937
Total	--	50,559	63,265	113,824	--	--	--	113,824
Pine								
Minnesota	172,455	--	--	172,455	--	58,094	58,094	230,549
Wisconsin	63,090	216,326	91,083	370,499	85,711	58	85,769	456,268
Michigan	--	--	115,571	115,571	--	--	--	115,571
Exported[3]	1,290	20	--	1,310	--	--	--	--
Total	236,835	216,346	206,654	659,835	85,711	58,152	143,863	802,388
Spruce								
Minnesota	81,252	--	--	81,252	599	1,971	2,570	83,822
Wisconsin	53,520	13,367	22,821	89,708	--	118,723	118,723	208,431
Michigan	--	--	14,948	14,948	--	1,413	1,413	16,361
Exported[3]	19,791	--	1,117	20,908	--	--	--	--
Total	154,563	13,367	38,886	206,816	599	122,107	122,706	308,614
Tamarack								
Minnesota	293	--	--	293	--	--	--	293
Wisconsin	20,756	1,728	2,195	24,679	--	--	--	24,679
Total	21,049	1,728	2,195	24,972	--	--	--	24,972
Misc. hardwoods								
Minnesota	29,905	--	--	29,905	--	10,345	10,345	40,250
Wisconsin	913	233,064	44,015	277,992	--	--	--	277,992
Michigan	--	--	151,210	151,210	--	417	417	151,627
Exported[3]	1,080	4,678	400	6,158	--	--	--	--
Total	31,898	237,742	195,625	465,265	--	10,762	10,762	469,869
Total roundwood								
Minnesota	936,860	6,240	--	943,100	599	80,154	80,753	1,023,853
Wisconsin	184,766	1,315,599	495,885	1,996,250	85,711	119,066	204,777	2,201,027
Michigan	--	2,380	680,279	682,659	--	1,830	1,830	684,489
Exported[3]	25,827	5,652	3,861	35,340	--	--	--	--
Total	1,147,453	1,329,871	1,180,025	3,657,349	86,310	201,050	287,360	3,909,369
Residues softwood								
Minnesota	1,000	--	--	1,000	--	6,223	6,223	7,223
Wisconsin	2,282	13,388	5,018	20,688	171,335	--	171,335	192,023
Exported[3]	1,500	1,431	2,757	5,688	--	--	--	--
Total	4,782	14,819	7,775	27,376	171,335	6,223	177,558	199,246
Residues hardwood								
Minnesota	38,811	10,905	--	49,716	954	--	954	50,670
Wisconsin	1,308	83,204	36,372	120,884	--	--	--	120,884
Michigan	--	6,268	71,298	77,566	8,898	--	8,898	86,464
Exported[3]	--	5,089	6,433	11,522	--	--	--	--
Total	40,119	105,466	114,103	259,688	9,852	--	9,852	258,018
All wood material								
Minnesota	976,671	17,145	--	993,816	1,553	86,377	87,930	1,081,746
Wisconsin	188,356	1,412,191	537,275	2,137,822	257,046	119,066	376,112	2,513,934
Michigan	--	8,648	751,577	760,225	8,898	1,830	10,728	770,953
Exported[3]	27,327	12,172	13,051	52,550	--	--	--	--
Total	1,192,354	1,450,156	1,301,903	3,944,413	267,497	207,273	474,770	4,366,633

1/ Vertical columns of figures under box heading "Production by States" present the amount of pulpwood cut in each State.

2/ Mostly western States.

3/ Pulpwood shipped to mills outside of region.

Table 2. — *Geographic origin and destination of pulpwood received by Lake States mills, 1969*

Species	Percent of pulpwood originating from:					Percent of pulpwood received by mills in:		
	Minn.	Wis.	Mich.	Canada	Other U.S.	Minn.	Wis.	Mich.
Aspen	33	35	31	1	--	32	50	18
Balsam fir	29	38	33	--	--	25	61	14
Birch	3	71	26	--	--	3	72	25
Hemlock	--	44	56	--	--	--	98	2
Pine	29	27	26	7	11	29	57	14
Spruce	44	4	12	40	*	27	68	5
Tamarack	84	7	9	--	--	1	99	--
Misc. hardwoods	6	50	42	2	--	9	59	32
Residues	9	25	25	1	40	13	68	19
All wood material	27	33	30	4	6	25	57	18
Previous year (1968)	27	32	29	6	6	25	56	19

*Less than 1/2 of 1 percent.

purchases went to Wisconsin. Lake States loggers supplied 90 percent of the volume, western states 6 percent, and Canada 4 percent (table 2).

Receipts were up 13 percent in Wisconsin where 57 percent of all wood purchases in the Lake States were shipped. Pulpwood procurement in Michigan declined because one pulpmill closed. Procurement of spruce, balsam fir, and pine declined in Michigan, but was nearly offset by larger purchases of aspen, birch, and hardwood residues. Receipts rose 9 percent in Minnesota with most of the additional volume in aspen, pine, and mixed hardwoods.

For the first time, pulpwood imports from western States exceeded those from Canada. About one-third of the fiber from western States is roundwood (or chips from roundwood) — most of the rest is softwood chips from mill residues. Softwood residue imports from western States reached a record high and were nearly double the volume received in 1966. By contrast, nearly all of the Canadian imports are spruce and pine roundwood.

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